

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-5 (cancelled).

6. (New) A rotation sensor mounted on a rotatable shaft to detect a rotation angle of said shaft, comprising:

first and second members each surrounding said shaft, being disposed separately from each other along an axis of said shaft, and relatively rotating along with rotation of said shaft;

a slip ring carried on said first member and extending concentrically with said shaft, said slip ring being made of a conductive metal;

a film formed on said slip ring, the film being made of a synthetic resin having conductivity;
and

a conductive brush carried on said second member and slidably contacting said slip ring either directly or through said film, wherein:

a sliding-contact position between said brush and said slip ring is displaced in a circumferential direction of said slip ring according to the rotation angle of said shaft when said first and second members relatively rotate.

7. (New) The rotation sensor according to claim 6, wherein said film is formed only on a part of said slip ring.

Preliminary Amendment

8. (New) The rotation sensor according to claim 7, wherein said shaft has a neutral position; and
said brush contacts said slip ring through said film when said shaft is in the neutral position.

9. (New) The rotation sensor according to claim 7, wherein said slip ring has a commonly used zone in which there exists said sliding-contact position with high frequency and a non-commonly used zone in which there exists said sliding-contact position with lower frequency than said commonly used zone; and
said film is formed on said commonly used zone of said slip ring.

10. (New) The rotation sensor according to claim 6, wherein said synthetic resin having conductivity is a mixture including an epoxy resin and at least carbon as a conductive material.

11. (New) A slip ring utilized for detection of a rotation angle of a shaft in a rotation sensor mounted on the shaft, said rotation sensor including first and second members each surrounding said shaft, being disposed separately from each other along an axis of said shaft, and relatively rotating along with rotation of said shaft, said first member carrying said slip ring, and a conductive brush carried on said second member and slidably contacting said slip ring, wherein a sliding-contact position between said brush and said slip ring is displaced in a circumferential direction of said slip ring according to the rotation angle of said shaft when said first and second members relatively rotate, said slip ring comprising:

Preliminary Amendment

a metal ring having conductivity; and

a film formed on said metal ring, said film being made of a synthetic resin having conductivity.

12. (New) The slip ring according to claim 11, wherein said film is formed only on a part of said metal ring.

13. (New) The slip ring according to claim 12, wherein said shaft has a neutral position; and

said metal ring contacts said brush through said film when said shaft is in said neutral position.

14. (New) The slip ring according to claim 12, wherein said metal ring has a commonly used zone in which there exists said sliding-contact position with high frequency and a non-commonly used zone in which there exists said sliding-contact position with lower frequency than said commonly used zone; and

said film is formed on said commonly used zone of said metal ring.

15. (New) The slip ring according to claim 11, wherein said synthetic resin having conductivity is a mixture including an epoxy resin and at least carbon as conductive material.